

Synthesis and membrane transport properties of n-functionalized α -aminophosphine oxides

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Abstract

New lipophilic mono- and bisphosphinylamines including those possessing additional potential centers of coordination were synthesized on the basis of the Kabachnik-Fields reaction, and membrane transport properties of the synthesized compounds toward the rare and rare-earths were studied. Highly effective extractant of Sc(III) was found possessing a high degree of selectivity in the separation of Sc(III) ions from the ions of satellite metals. Copyright © Taylor & Francis Group, LLC.

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Keywords

Aminophosphorus compounds, Kabachnik-Fields reaction, Membrane transport